

MODULE III CONTAINERS

III.A. PERMITTED CONTAINER STORAGE AREAS

- III.A.1. The Permittee may store hazardous waste in the Container Handling Building (CHB), Unpack Area (UPA), Explosive Containment Room Vestibule (ECV), Upstairs Munitions Corridor (UPMC), the S-2 Warehouse, the Toxic Maintenance Area (TMA) Airlock/Decon Area, and the TMA Container Storage Area.
- III.A.2. The CHB, UPA, TMA Airlock/Decon Area, and ECV shall be limited to the storage of munitions and bulk containers containing chemical agents, explosives, and propellants (hazardous waste codes P999, F999, D002, D003, D004, D005, D006, D007, D008, D009, D010). When storing leaking munitions/bulk containers in the TMA Airlock/Decon Area and UPA, the overpack (e.g., ONC) shall provide primary containment and shall be considered to be the container regulated under this Module and Module X.
- III.A.3. The UPMC shall be limited to the storage of munitions and bulk containers containing chemical agents and explosives (hazardous waste codes P999, F999, and D002, D003, D004, D006, D007, D008, D009, D010).
- III.A.4. The S-2 Warehouse shall be limited to the storage of site-generated wastes with the following waste codes: D001 through D011, D018, D019, D021, D022, D035, D039, D040, F001 through F005, U002, U003, U037, U044, U080, U131, U154, U159, U210, U220, F999, and P999.
- III.A.5. The TMA Container Storage Area shall be limited to the storage of wastes with the following waste codes: D002 through D011, D018, D019, D021, D022, D035, D039, D040, F001, F002, F004, F005, U037, U131, U210, F999, and P999. Treatment in the form of decontamination will be allowed in accordance with Attachment 12 (Containers).

III.B. DFS CYCLONE DISCHARGE

- III.B.1. The dust/ash collected from the Deactivation Furnace System (DFS) Cyclone shall be stored within the DFS Cyclone Discharge Enclosure in accordance with the requirements specified in R315-5-3.34.

III.C. PERMITTED AND PROHIBITED WASTE IN THE CONTAINER STORAGE AREAS

- III.C.1. When storing the wastes listed below in the CHB and the TMA Airlock/Decon Area, the waste shall be stored in overpack containers. When storing the wastes listed below in the UPA, the waste shall be stored in either overpack containers or on secondary containment pallets. The wastes listed below may be stored in the ECV and the UPMC. Storage of these wastes shall be subject to the terms of this Permit and the volumes listed below.

| Description of Hazardous Waste | Utah, EPA Hazardous Waste # | Maximum Volume, gal | | | | |
|---|---|---------------------|-------|--------------------|-----|--------|
| | | CHB | UPA | TMA Airlock /Decon | ECV | UPMC |
| Agent GB | P999, D003, D002, D004, D006, D007, D008, D009 and D010 | 15,859 | 2,972 | 661 | 680 | 3,855 |
| Agent VX | P999, D003, D004, D007, D008, D009 and D010 | 18,278 | 3,424 | 761 | 833 | 4,366 |
| Mustard Agents (H, HD, HT) | P999, D003 | 15,418 | 2,880 | 640 | 671 | 4,145 |
| Explosives | P999, D003 | - | - | - | - | note 1 |
| Propellants | P999, D003 | - | - | - | - | N/A |
| Fuzes | P999, D003 | - | - | - | - | N/A |
| Detonators | P999, D005, D008, D003 | - | - | - | - | N/A |
| Squibs | P999, D003 | - | - | - | - | N/A |
| Igniters | P999, D003 | - | - | - | - | N/A |
| Initiators | P999, D003 | - | - | - | - | N/A |
| Bursters | P999, D003 | - | - | - | - | note 1 |
| Mine Bodies | P999, D003 | - | - | - | - | N/A |
| Rocket Components | P999, D003 | - | - | - | - | N/A |
| Munitions Body Components | P999, D003 | - | - | - | - | - |
| Mine Drums | P999, D003 | - | - | - | - | N/A |
| Note 1: See Paragraph 14.4.2.18 for instances when the burster detection system detects energetics in projectiles or mortars. | | | | | | |

III.C.2. The Permittee shall not exceed a maximum storage capacity of 48 overpacks in the CHB at any one time. The Permittee shall not exceed a maximum storage capacity of nine ONCs, 12 Spray Tank Overpacks or 40 MK-116 Bomb Overpacks in the UPA at any one time. The Permittee shall not exceed a maximum storage capacity of two overpacks in the TMA Airlock/Decon Area at any one time.

III.C.3. The Permittee shall not exceed the maximum allowable number of munitions per individual overpack as specified below and shall not exceed the maximum allowable total number of munitions in the CHB, the UPA, the ECV, the TMA Airlock/Decon Area, and the UPMC as specified below:

| Munition | Maximum Allowable Number per Overpack | Maximum Allowable Number | | | | |
|---------------------------|---------------------------------------|--------------------------|------|--------------------|-----|------|
| | | CHB | UPA | TMA Airlock /Decon | ECV | UPMC |
| 155 mm Projectile | 96 | 4608 | 864 | 192 | 28 | 1004 |
| M55 Rocket | 30 | 1440 | 270 | 60 | 3 | N/A |
| Mine | 36 | 864 | 324 | 36 | 60 | N/A |
| Ton Container | 2 | 96 | 18 | 4 | 4 | 19 |
| Spray Tank | 1 | 48 | 12 | 2 | 1 | 10 |
| 4.2" Mortar | 192 | 9216 | 1728 | 384 | 38 | 1957 |
| 105 mm Projectile | 96 | 4608 | 864 | 192 | 30 | 1956 |
| MK-116 Bomb | 1 | 48 | 40 | 2 | 4 | 19 |
| VX Test Cylinder | 1 | 0 | 0 | 18 | 0 | 0 |
| VXH Five-Gallon Container | | | | | | 19 |

III.C.3.a. Spray tanks and MK-116 bombs may be stored in the original transport overpacks in the CHB, TMA Airlock/Decon Area, or the UPA, if the original transport container meets the criteria specified in Condition III.D.

III.C.4. The Permittee shall not store hazardous waste that is not identified in Condition III.C.1. in the CHB, UPA, TMA Airlock/Decon Area, ECV, or UPMC. In addition to the permitted storage discussed in this module, the TMA Airlock/Decon Area is also a 90-day Storage Area for site-generated waste.

III.C.5. The Permittee shall store wastes in containers in the TMA Container Storage Area subject to the terms of this Permit, provided that the maximum volume of containerized waste stored in the TMA Container Storage Area does not exceed 2,200 gallons. The Permittee shall also store agent-contaminated parts and equipment in the TMA Container Storage Area.

III.C.6 The Permittee shall store site-generated wastes in containers in the S-2 Warehouse subject to the terms of this Permit, provided that the maximum volume of containerized waste stored in the S-2 Warehouse does not exceed 38,720 gallons.

III.C.7 The Permittee shall not exceed a maximum volume of 600 gallons of containerized waste per secondary containment pallet in the S-2 Warehouse at any one time. Except as provided in Attachment 12, the volume of a single container stored on a secondary containment pallet in the S-2 Warehouse shall not exceed 60 gallons.

III.D. CONDITION OF CONTAINERS

III.D.1. If a container holding hazardous waste is not in good condition (e.g., severe rusting, apparent structural defects) or if it begins to leak, the Permittee shall transfer the hazardous waste from such container to a container that is in good condition or otherwise manage the waste in compliance with the conditions of this Permit.

III.E. COMPATIBILITY OF WASTE WITH CONTAINERS

III.E.1. The Permittee shall comply with R315-8-9.3.

III.F. **MANAGEMENT OF CONTAINERS**

III.F.1. In the CHB, UPA, and the TMA Airlock/Decon Area, the Permittee shall keep all containers closed during storage, except when it is necessary to add or remove waste and shall not open, handle, or store containers in a manner which may rupture a container or cause it to leak. In the S-2 Warehouse, the Permittee shall keep all containers closed except when adding or removing waste or periodically monitoring the vapor space within the container and shall not handle or store containers in a manner which may rupture a container or cause it to leak.

III.F.2. The Permittee shall manage all hazardous waste placed in containers stored in permitted container storage areas in accordance with Module X.

III.G. **SECONDARY CONTAINMENT SYSTEM**

III.G.1. Overpacks shall meet the secondary containment requirements of R315-8-9.6 for the non-leaking munitions contained within. The types of overpacks used shall be On-Site Containers (ONC), Spray Tank Overpacks, and MK116 Bomb Overpacks. ONCs shall be used to store all munitions and bulk containers except spray tanks and MK116 bombs. The latter two items shall be stored in item-specific overpacks (also referred to as shipping containers). The sumps and corresponding trenching located in the CHB shall not be used as secondary containment but shall be used to collect moisture or precipitation (storm water runoff) that may drip from the overpack exterior.

III.G.2. With the exception of the munition loading activities that may occur in the UPA (ref: Attachment 12), ONCs shall be tested for vapor tightness upon receipt in the CHB for storage. Spray Tank and MK116 Bomb Overpacks shall also be tested for vapor tightness prior to receipt in the CHB.

III.G.3. Records of vapor tightness testing shall be kept at the facility as part of the TOCDF Operating Record and shall be subject to inspection.

III.G.4. If the ability of an overpack to contain vapors is impaired (i.e., fails a leak test), the overpack shall be moved to the UPA for processing on a priority basis. Furthermore, if the impaired overpack is determined, via ACAMS monitoring, to contain leaking munitions/bulk containers, personnel wearing the appropriate PPE shall unpack the leakers in the UPA and process them. Overpacks, which are impaired, may also be repaired so that a leak test can be passed.

III.G.5. The secondary containment systems for the ECV, TMA Airlock/Decon Area, UPA, and UPMC shall be designed and operated as specified in Attachment 12 (Containers).

III.H. **INSPECTION SCHEDULES AND PROCEDURES**

III.H.1. The Permittee shall inspect the container areas weekly, in accordance with the Inspection Plan (Attachment 5) and Module X, to detect leaking containers and deterioration of containers and the containment system caused by corrosion and other factors.

III.I. **RECORDKEEPING**

- III.I.1. The Permittee shall document all waste received at the TOCDF in the Operating Record, in accordance with Condition II.I.

III.J. **CLOSURE**

- III.J.1. At closure of the container area, the Permittee shall remove all hazardous waste and hazardous waste constituents from the containment system, in accordance with the procedures in the Closure Plan (Attachment 10).

III.K. **REACTIVE WASTES**

- III.K.1. The Permittee shall take precautions to prevent accidental reaction of wastes and follow the procedures specified in Attachments 8 (Preparedness and Prevention) and 12 (Containers).

III.L. **INCOMPATIBLE WASTE**

- III.L.1. The Permittee shall place munitions or bulk containers with only one type of chemical agent in the CHB, UPA, ECV, UPMC, TMA Airlock/Decon Area, or the TMA Container Storage Area at a time. In the S-2 Warehouse, the Permittee shall not place containers with incompatible site-generated waste on a secondary containment pallet at the same time.
- III.L.2. The Permittee shall not place chemical agent or munitions containing a chemical agent in a container or munition that previously held a different chemical agent until the container has been decontaminated to less than one VSL.